Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2005 HIGHEST RN 862883-42-9
DICTIONARY FILE UPDATES: 11 SEP 2005 HIGHEST RN 862883-42-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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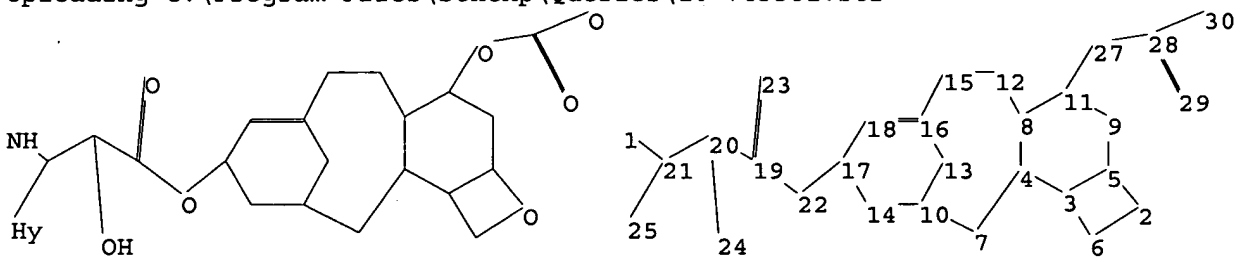
Uploading C:\Program Files\Stnexp\Queries\10-743581.str



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1 19 20 21 22 23 24 25 27 28 29 30
ring nodes :
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
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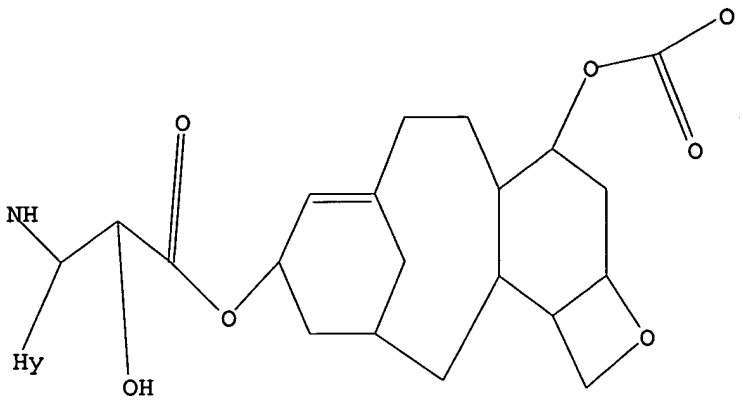
ring bonds :
2-5 2-6 3-4 3-5 3-6 4-7 4-8 5-9 7-10 8-11 8-12 9-11 10-13 10-14 12-15 13-16 14-17 15-16 16-18 17-18
exact/norm bonds :
1-21 11-27 17-22 19-22 19-23 20-24 21-25 27-28 28-29 28-30
exact bonds :
2-5 2-6 3-4 3-5 3-6 4-7 4-8 5-9 7-10 8-11 8-12 9-11 10-13 10-14 12-15 13-16 14-17 15-16 16-18 17-18 19-20 20-21
isolated ring systems :
containing 2 :

Match level :
1:CLASS 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom 27:CLASS 28:CLASS
29:CLASS 30:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 965 TO ITERATE

100.0% PROCESSED 965 ITERATIONS 45 ANSWERS
SEARCH TIME: 00.00.01

L2 45 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 18:34:01 ON 12 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 12 Sep 2005 VOL 143 ISS 12
FILE LAST UPDATED: 11 Sep 2005 (20050911/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2
L3 4 L2

=> d ibib abs hitstr tot

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:581881 CAPLUS
DOCUMENT NUMBER: 135:152986
TITLE: Preparation of C7 carbonate substituted taxanes for use as antitumor agents
INVENTOR(S): Holton, Robert A.
PATENT ASSIGNEE(S): Florida State University Research Foundation, Inc., USA
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001057030	A1	20010809	WO 2001-US3554	20010202
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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AU 2001034793	A5	20010814	AU 2001-34793	20010202
AU 776122	B2	20040826		
BR 2001004351	A	20020102	BR 2001-4351	20010202
EP 1165552	A1	20020102	EP 2001-906952	20010202
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US 6638973	B2	20031028		
US 2002065304	A1	20020530	US 2001-776137	20010202
US 6780879	B2	20040824		
TR 200102857	T1	20020621	TR 2001-200102857	20010202
JP 2003522170	T2	20030722	JP 2001-557862	20010202
NZ 514380	A	20050324	NZ 2001-514380	20010202
EP 1285919	A1	20030226	EP 2001-118727	20010806
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NO 2001004755	A	20011129	NO 2001-4755	20011001
BG 105966	A	20020731	BG 2001-105966	20011001
ZA 2001008051	A	20031201	ZA 2001-8051	20011001
US 2004097579	A1	20040520	US 2003-680649	20031007
US 2004138267	A1	20040715	US 2003-743581	20031222
US 2005165051	A1	20050728	US 2005-82380	20050317

PRIORITY APPLN. INFO.:

US 2000-179671P	P	20000202
US 2000-179669P	P	20000202
US 2000-179670P	P	20000202
US 2000-179672P	P	20000202
US 2000-179684P	P	20000202
US 2000-179782P	P	20000202
US 2000-179793P	P	20000202
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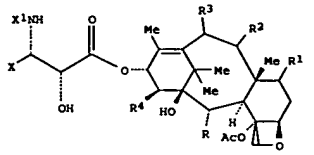
US 2001-776426	A3	20010202
WO 2001-US3554	W	20010202
US 2003-743581	A1	20031222

OTHER SOURCE(S): MARPAT 135:152986
GI



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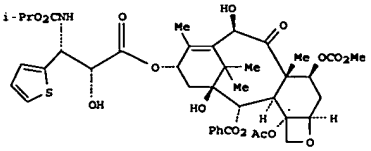

II

AB Taxanes I (R = acyloxy; R1 = carbonate; R2 = keto, hydroxy, acyloxy; R3 = hydroxy; R4 = hydrido, hydroxy; X = substituted or unsubstituted alkyl, alkenyl, alkynyl, Ph, heterocyclo; X1 = COX2, CO2X2, CONHX2; X2 = hydrocarbyl, substituted hydrocarbyl, heterocyclo; Ac = acetyl) having a carbonate substituent at C(7) were prepd. and tested as antitumor agents. II was prepd. and had in vitro cytotoxicity of ID50 of < 1 nm against HCT116 cells. Pharmaceutical compns. contg. I are described.

IT 352427-29-3P 352698-18-1P 352698-19-2P
352698-20-5P 352698-21-6P 352698-22-7P
352698-23-8P 352698-24-9P 352698-25-0P
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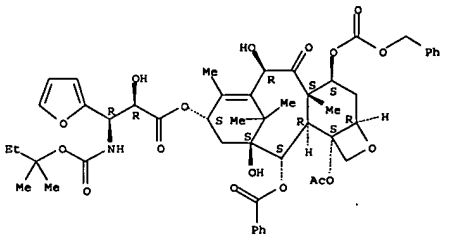
352698-62-5P 352698-63-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of C7 carbonate substituted taxanes for use as antitumor agents)

RN 352427-29-3 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylpropoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

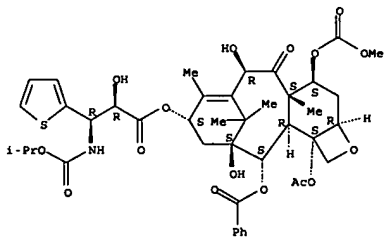
Absolute stereochemistry.



RN 352698-18-1 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(1-methylethoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)-

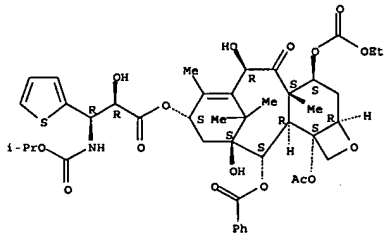
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-19-2 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(1-methylethoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

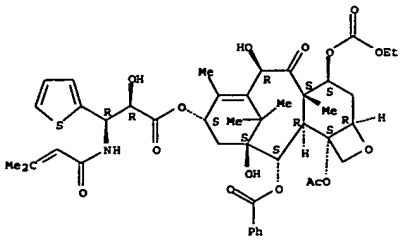
Absolute stereochemistry.



RN 352698-20-5 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

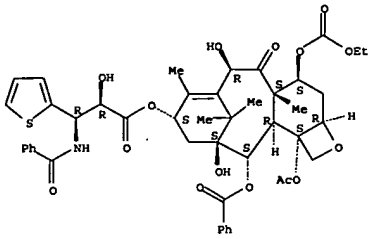
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.



RN 352698-21-6 CAPLUS
CN 2-Thiophenepropanoic acid, β-(benzoylamino)-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

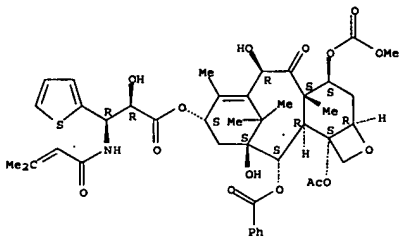
Absolute stereochemistry.



RN 352698-22-7 CAPLUS
CN 2-Thiophenepropanoic acid, β-[(2-furanylcarbonyl)amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

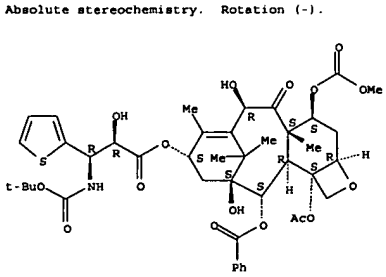
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



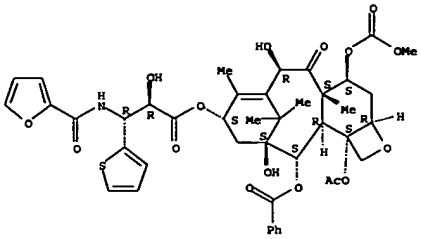
RN 352698-25-0 CAPLUS
CN 2-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



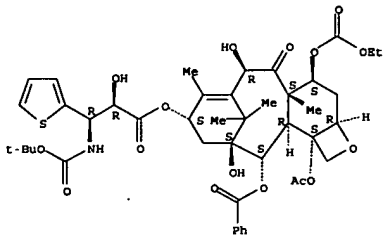
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-23-8 CAPLUS
CN 2-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

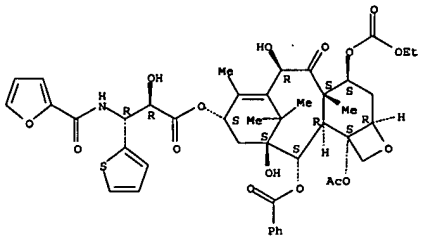
Absolute stereochemistry.



RN 352698-24-9 CAPLUS

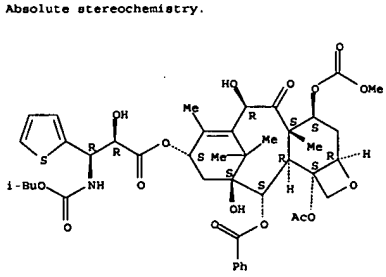
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 352698-26-1 CAPLUS
CN 2-Thiophenepropanoic acid, β-[(2-furanylcarbonyl)amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



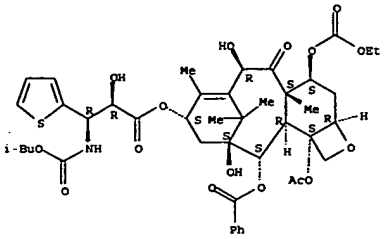
RN 352698-28-3 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 352698-29-4 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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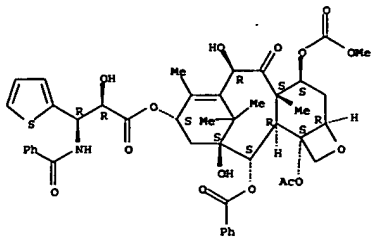
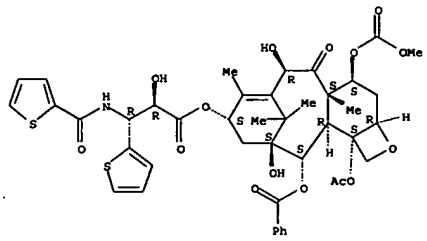
Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-31-8 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(2-thienylcarbonyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

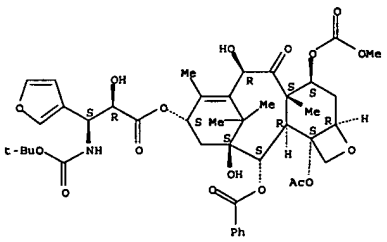
Absolute stereochemistry.



RN 352698-32-9 CAPLUS
CN 3-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

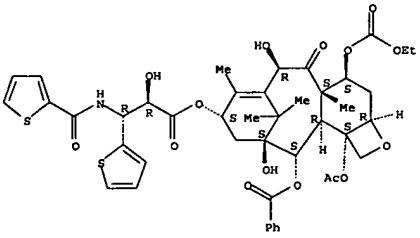
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-33-0 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(2-thienylcarbonyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

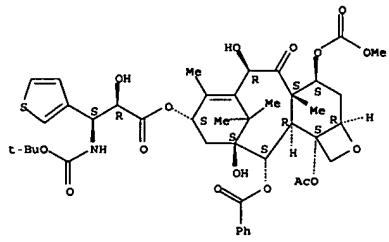
Absolute stereochemistry.



RN 352698-34-1 CAPLUS
CN 3-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

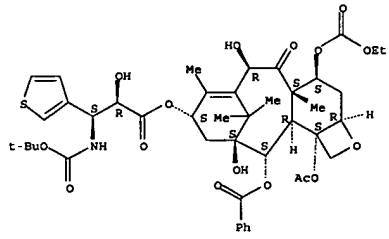
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-36-3 CAPLUS
CN 3-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

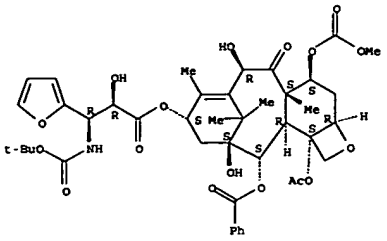
Absolute stereochemistry.



RN 352698-39-6 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-

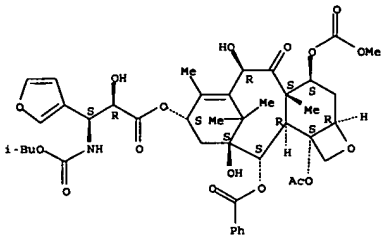
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

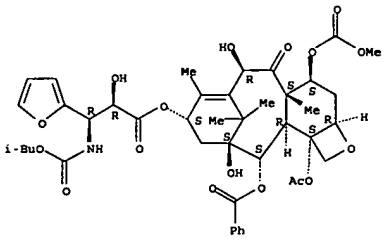


RN 352698-41-0 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

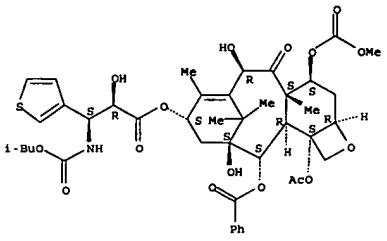


L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-46-5 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

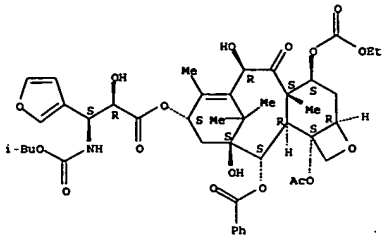


RN 352698-48-7 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 352698-43-2 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

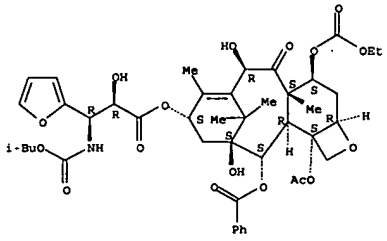
Absolute stereochemistry.



RN 352698-45-4 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

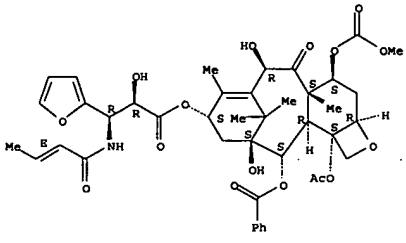
Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-49-8 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

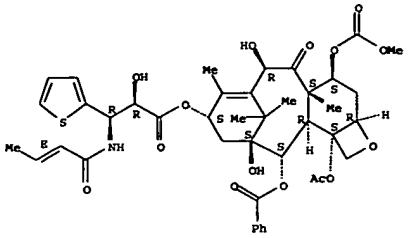
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-50-1 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

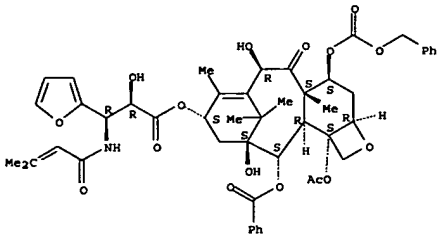
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry as shown.



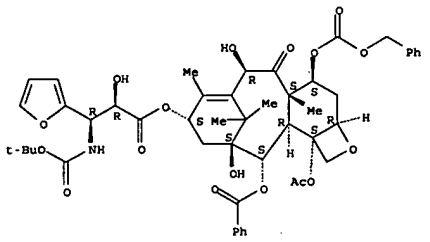
RN 352698-51-2 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



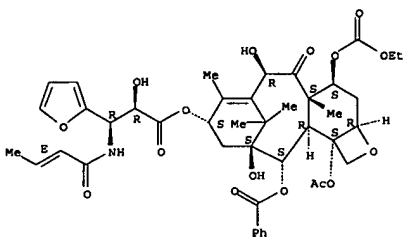
RN 352698-53-4 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-55-6 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

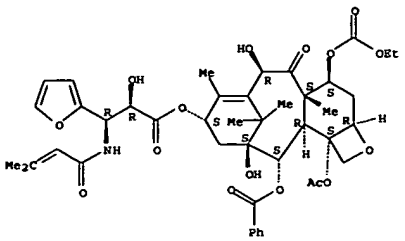
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-56-7 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

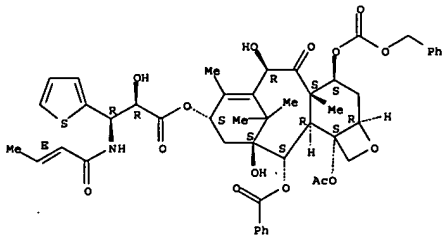
Absolute stereochemistry.



RN 352698-54-5 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

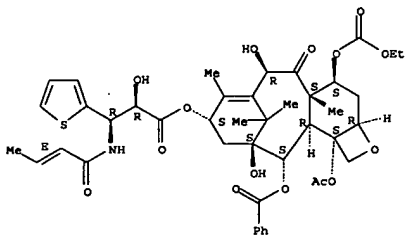
Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-57-8 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

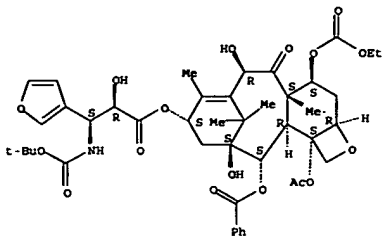
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-58-9 CAPLUS
CN 3-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

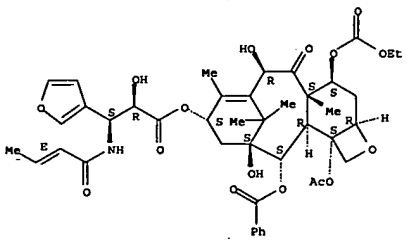
L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.



RN 352698-59-0 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

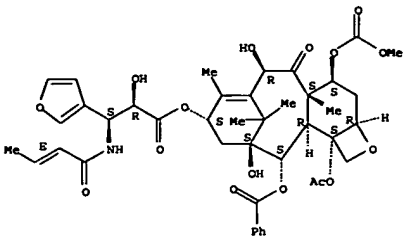


RN 352698-60-3 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

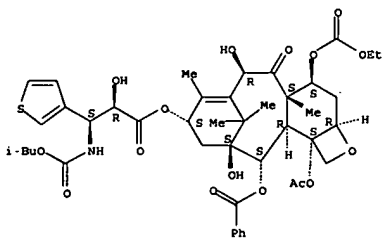
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-61-4 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

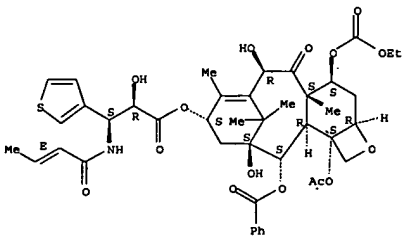
Absolute stereochemistry.

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-62-5 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

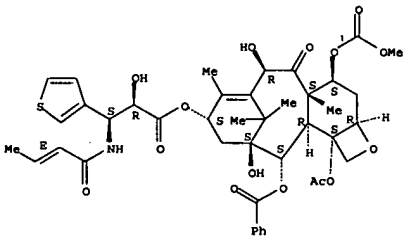
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-63-6 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:581864 CAPLUS
DOCUMENT NUMBER: 135:152983
TITLE: Preparation and formulation of taxanes having improved solubility for pharmaceutical use as antitumor agents
INVENTOR(S): Holton, Robert A.
PATENT ASSIGNEE(S): Florida State University Research Foundation, Inc., USA
SOURCE: PCT Int. Appl., 319 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001057013	A1	20010809	WO 2001-US3624	20010202
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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CA 2367661	AA	20010809	CA 2001-2367661	20010202
AU 2001034810	A5	20010814	AU 2001-34810	20010202
US 2001051639	A1	20011213	US 2001-776492	20010202
US 6649632	B2	20031118		
BR 2001004358	A	20020102	BR 2001-4358	20010202
EP 1175414	A1	20020130	EP 2001-906972	20010202
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US 6638973	B2	20031028		
JP 2003521545	T2	20030715	JP 2001-556863	20010202
NZ 514073	A	20040227	NZ 2001-514073	20010202
CA 2354471	AA	20030131	CA 2001-2354471	20010731
ZA 2001006333	A	20020801	ZA 2001-6333	20010801
NO 2001004752	A	20011127	NO 2001-4752	20011001
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US 2003060638	A1	20030327	US 2002-71924	20020206
US 6750245	B2	20040615		
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US 2004034230	A1	20040219	US 2003-618063	20030711
US 6906088	B2	20050614		
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US 6861446	B2	20050301		
US 2004122055	A1	20040624	US 2003-720615	20031124
US 2004138267	A1	20040715	US 2003-743581	20031222

Art 0DP

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Taxanes, such as I [R7, R10 = H, acyl, carboxy, carbamoyl, etc.; X3 = alkyl, alkenyl, alkynyl, Ph, substituted Ph, heteroaryl; X5 = H, acyl, carboxyl, carboxamide, etc.) with improved solubility, were prepared for use as antitumor agents. Thus, taxotere analog II was prepared via esterification of baccatin III derivative III (R7 = COCH2Me, R10 = SiEt3) with β-lactam IV followed by a deprotection step using HF. The prepared taxanes were tested for cytotoxic activity against HCT116 cells. Pharmaceutical formulations of the prepared taxanes were also presented.

IT 352427-29-3P 352698-18-1P 352698-19-2P
352698-20-5P 352698-21-6P 352698-22-7P
352698-23-8P 352698-24-9P 352698-25-0P
352698-26-1P 352698-28-3P 352698-29-4P
352698-30-7P 352698-31-8P 352698-32-9P
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352698-59-0P 352698-60-3P 352698-61-4P
352698-62-5P 352698-63-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and formulation of taxanes having improved solubility for pharmaceutical use as antitumor agents)

RN 352427-29-3 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylpropoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

US 2005020635	A1	20050127	US 2004-867275	20040614
US 2005143446	A1	20050630	US 2005-63626	20050223
US 2005143447	A1	20050630	US 2005-68166	20050228
US 2005182098	A1	20050818	US 2005-67882	20050228
US 2005165051	A1	20050728	US 2005-82380	20050317

PRIORITY APPLN. INFO.:

US 2000-179669P	P	20000202
US 2000-179670P	P	20000202
US 2000-179671P	P	20000202
US 2000-179672P	P	20000202
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US 2000-179684P	P	20000202
US 2000-179782P	P	20000202
US 2000-179793P	P	20000202
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US 2001-775852	A1	20010202
US 2001-775912	A1	20010202
US 2001-776137	A1	20010202
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US 2001-776393	A1	20010202
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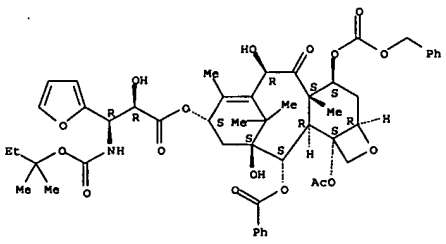
WO 2001-US3624	W	20010202
US 2002-71924	A1	20020206
US 2003-609301	A1	20030627
US 2003-618063	A1	20030711
US 2003-720826	A1	20031124
US 2003-743581	A1	20031222

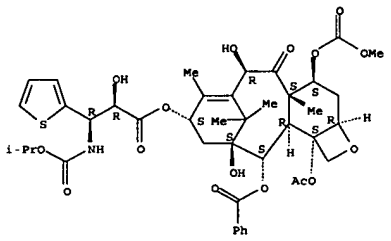
OTHER SOURCE(S): MARPAT 135:152983
GI

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-18-1 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(1-methylethoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

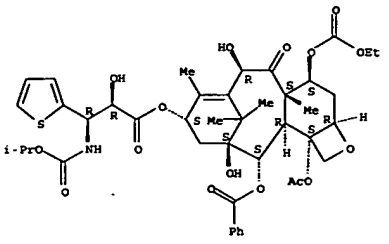
Absolute stereochemistry.



RN 352698-19-2 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(1-methylethoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

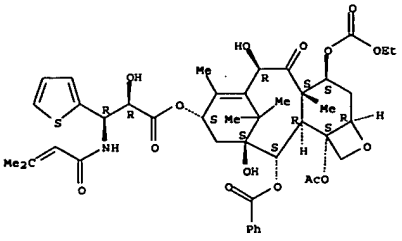
Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-20-5 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

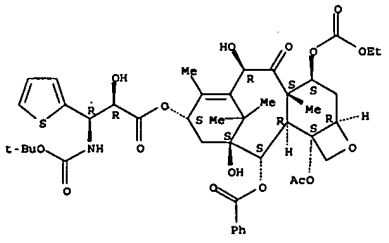
Absolute stereochemistry.



RN 352698-21-6 CAPLUS
CN 2-Thiophenepropanoic acid, β-(benzoylamino)-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA

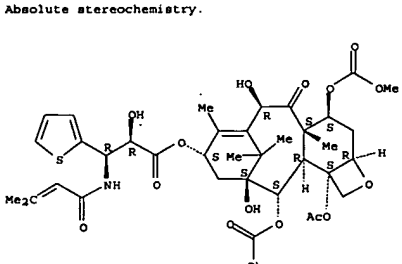
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-24-9 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

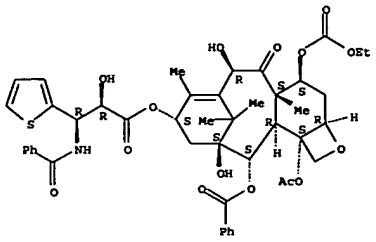
Absolute stereochemistry.



RN 352698-25-0 CAPLUS
CN 2-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-

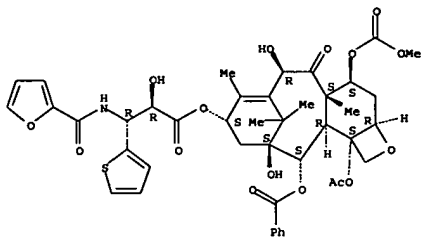
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
INDEX NAME)

Absolute stereochemistry.



RN 352698-22-7 CAPLUS
CN 2-Thiophenepropanoic acid, β-[(2-furanylcarbonyl)amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

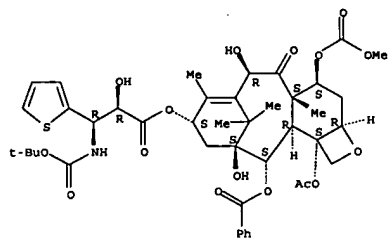
Absolute stereochemistry.



RN 352698-23-8 CAPLUS
CN 2-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-

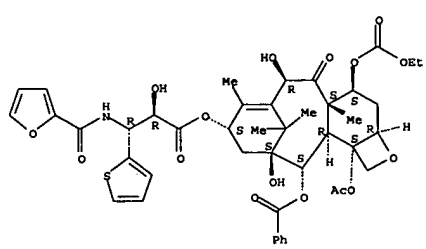
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 352698-26-1 CAPLUS
CN 2-Thiophenepropanoic acid, β-[(2-furanylcarbonyl)amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

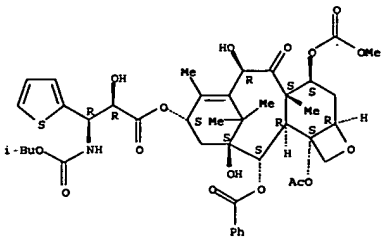
Absolute stereochemistry.



RN 352698-28-3 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2-

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

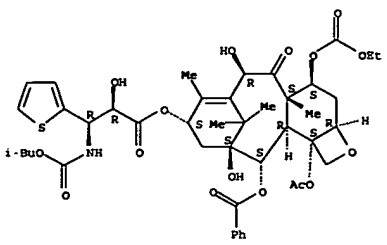
Absolute stereochemistry.



RN 352698-29-4 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



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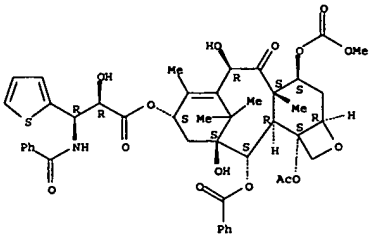
CN 2-Thiophenepropanoic acid, β-(benzoylamino)-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

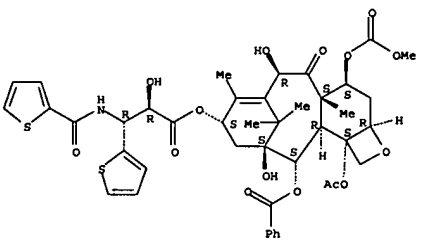
Absolute stereochemistry.



RN 352698-31-8 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(2-thienylcarbonyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-

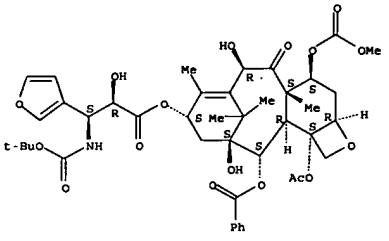
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-32-9 CAPLUS
CN 3-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

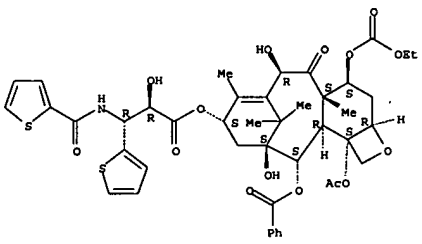
Absolute stereochemistry.



RN 352698-33-0 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[(2-thienylcarbonyl)amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-

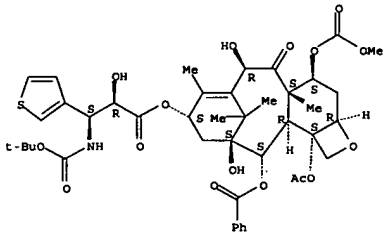
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-34-1 CAPLUS
CN 3-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

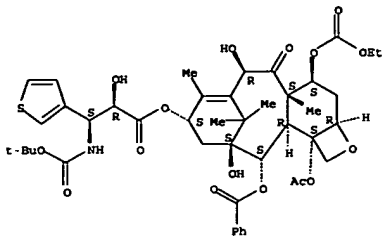
Absolute stereochemistry.



RN 352698-36-3 CAPLUS
CN 3-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

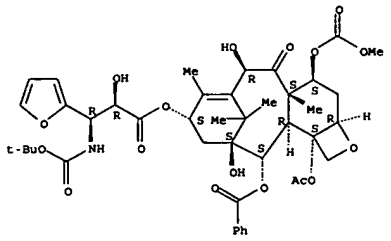
Absolute stereochemistry.



RN 352698-39-6 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

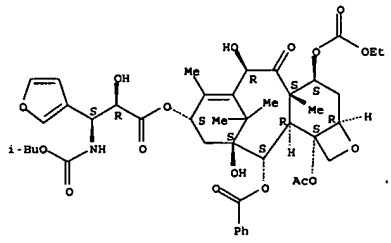
(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352698-41-0 CAPLUS

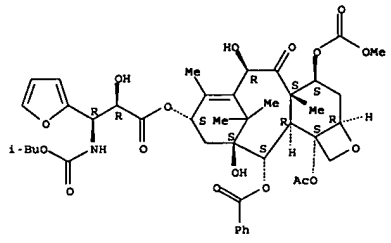
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-45-4 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-

6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



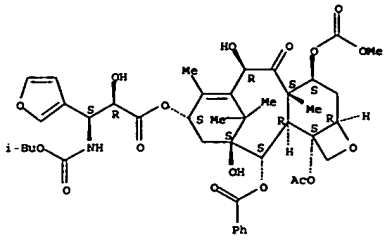
RN 352698-46-5 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-

6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-

6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

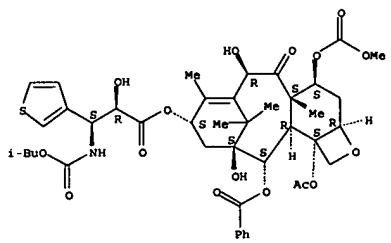
Absolute stereochemistry.



RN 352698-43-2 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

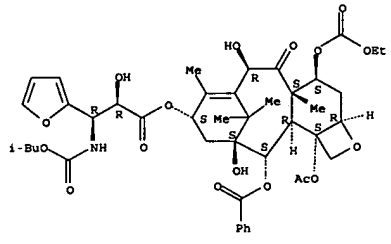
Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.



RN 352698-48-7 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

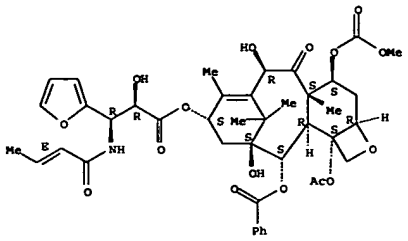
Absolute stereochemistry.



RN 352698-49-8 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

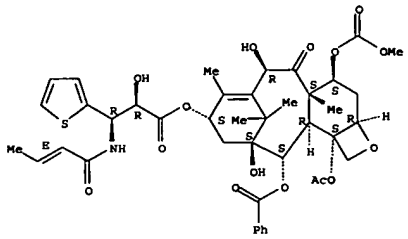
(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-50-1 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

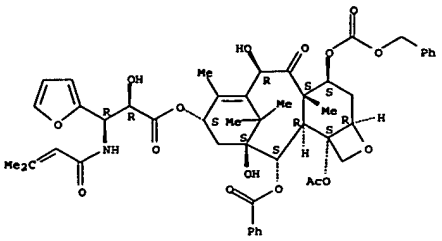
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-51-2 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

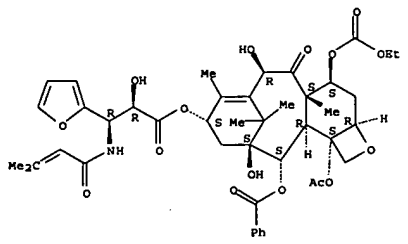
Absolute stereochemistry.



RN 352698-53-4 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[(3-methyl-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

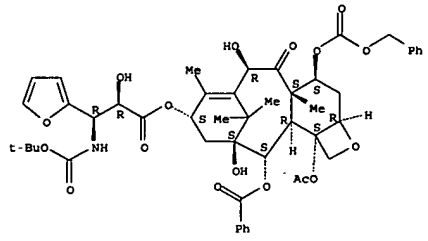
Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-54-5 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

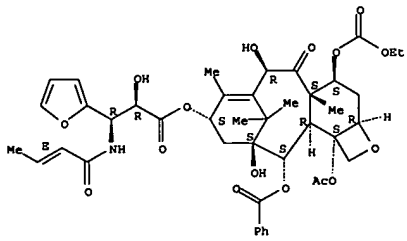
Absolute stereochemistry.



RN 352698-55-6 CAPLUS
CN 2-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

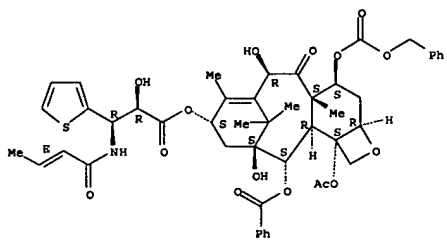
Absolute stereochemistry.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Double bond geometry as shown.



RN 352698-56-7 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

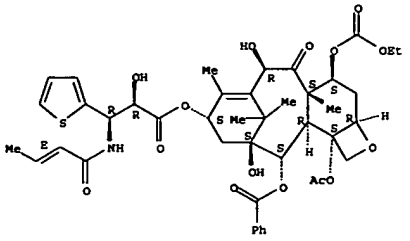
Absolute stereochemistry.
Double bond geometry as shown.



RN 352698-57-8 CAPLUS
CN 2-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

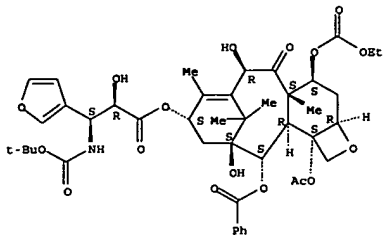
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.
Double bond geometry as shown.



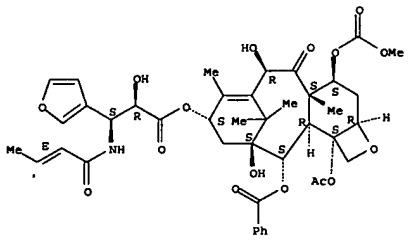
RN 352698-58-9 CAPLUS
CN 3-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



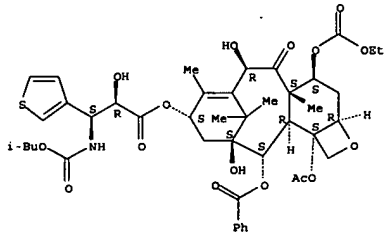
RN 352698-59-0 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-61-4 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2-methylpropoxy)carbonyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

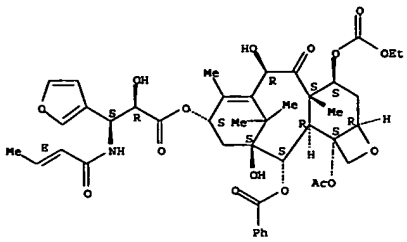


RN 352698-62-5 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(benzoyloxy)-4-[(ethoxycarbonyl)oxy]-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

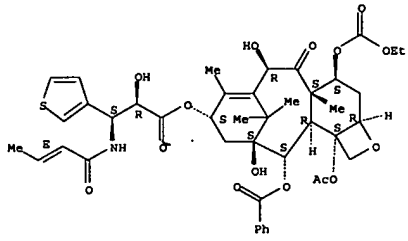


RN 352698-60-3 CAPLUS
CN 3-Furanpropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

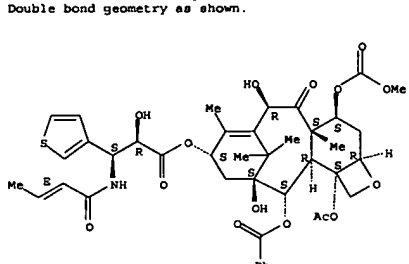
L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 352698-63-6 CAPLUS
CN 3-Thiophenepropanoic acid, α-hydroxy-β-[[(2E)-1-oxo-2-butenyl]amino]-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4-[(methoxycarbonyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βS)- (9CI) (CA INDEX NAME)

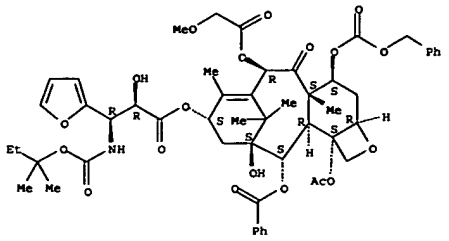
Absolute stereochemistry.
Double bond geometry as shown.



IT 352427-31-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and formulation of taxanes having improved solubility for pharmaceutical use as antitumor agents)
RN 352427-31-7 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylpropoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-6-[(methoxyacetyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	2001:581700 CAPLUS
DOCUMENT NUMBER:	135:152982
TITLE:	Preparation of C10 heterosubstituted acetate taxanes as antitumor agents
INVENTOR(S):	Holton, Robert A.
PATENT ASSIGNEE(S):	Florida State University Research Foundation, Inc., USA
SOURCE:	PCT Int. Appl., 56 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056564	A1	20010809	WO 2001-US3553	20010202
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2368502	AA	20010809	CA 2001-2368502	20010202
AU 2001034792	A5	20010814	AU 2001-34792	20010202
AU 776767	B2	20040923		
BR 2001004350	A	20020102	BR 2001-4350	20010202
EP 1165068	A1	20020102	EP 2001-906951	20010202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002052403	A1	20020502	US 2001-776426	20010202
US 6638973	B2	20031028		
US 2002068755	A1	20020606	US 2001-775912	20010202
US 6664275	B2	20031216		
JP 2003521514	T2	20030715	JP 2001-556255	20010202
NZ 514406	A	20050128	NZ 2001-514406	20010202
ZA 2001006334	A	20020801	ZA 2001-6334	20010801
BR 2001006693	A	20041123	BR 2001-6693	20010808
NO 2001004756	A	20011129	NO 2001-4756	20011001
ZA 2001008052	A	20031201	ZA 2001-8052	20011001
US 2004024051	A1	20040205	US 2003-609301	20030627
US 6872837	B2	20050329		
US 2004097579	A1	20040520	US 2003-680649	20031007
US 2005143447	A1	20050630	US 2005-68166	20050228

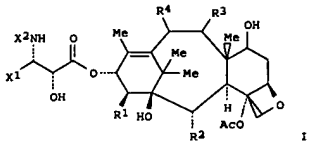
PRIORITY APPLN. INFO.:

US 2000-179669P	P	20000202
US 2000-179670P	P	20000202
US 2000-179671P	P	20000202
US 2000-179672P	P	20000202

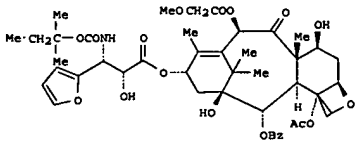
L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

US 2000-179684P	P	20000202
US 2000-179782P	P	20000202
US 2000-179793P	P	20000202
US 2000-179794P	P	20000202
US 2001-775912	A1	20010202
US 2001-776426	A3	20010202
WO 2001-US3553	W	20010202
US 2003-609301	A1	20030627

OTHER SOURCE(S): MARPAT 135:152982
GI



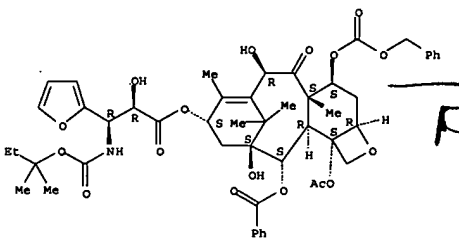
I



II

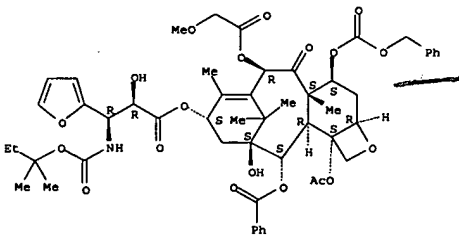
AB Taxanes of formula I [R1 = H, OH; R2 = acyloxy; R3 = keto, OH, acyloxy; R4
= heterosubstituted acetate; X1 = alkyl, alkenyl, Ph, heterocyclyl; X2 = acyl, CO2alkyl, CO2heterocyclyl, etc.], having a heterosubstituted acetate
substituent at C(10), are prepared as antitumor agents. Thus, II was prepared
and had in vitro cytotoxicity of ID50 < 1 nm against HCT116 cells.
IT 352427-29-3P 352427-31-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of C10 heterosubstituted acetate taxanes as antitumor agents)
RN 352427-29-3 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylpropoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-6,11-dihydroxy-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 352427-31-7 CAPLUS
CN 2-Furanpropanoic acid, β-[[(1,1-dimethylpropoxy)carbonyl]amino]-α-hydroxy-, (2aR,4S,4aS,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-6-[(methoxyacetyl)oxy]-4a,8,13,13-tetramethyl-5-oxo-4-[[(phenylmethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (αR,βR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

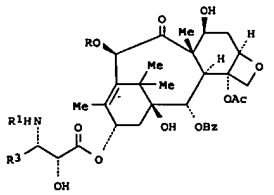
ACCESSION NUMBER: 1994:701105 CAPLUS
DOCUMENT NUMBER: 121:301105
TITLE: Preparation of taxane derivatives as antiproliferatives
INVENTOR(S): Bouchard, Herve; Bourzat, Jean-Dominique; commercon, Alain
PATENT ASSIGNEE(S): Rhone-Poulenc Rorer SA, Fr.
SOURCE: Fr. Demande, 44 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2698363	A1	19940527	FR 1992-14023	19921123
FR 2698363	B1	19941230		
CA 2149758	AA	19940609	CA 1993-2149758	19931122
WO 9412484	A1	19940609	WO 1993-FR1145	19931122
W: AU, CA, CZ, FI, HU, JP, KR, NO, NZ, PL, RU, SK, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9455659	A1	19940622	AU 1994-55659	19931122
AU 680455	B2	19970731		
ZA 9308728	A	19940628	ZA 1993-8728	19931122
EP 669916	A1	19950906	EP 1994-900862	19931122
EP 669916	B1	19970122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08503486	T2	19960416	JP 1993-512841	19931122
HU 74069	A2	19961028	HU 1995-1500	19931122
AT 148111	E	19970215	AT 1994-900862	19931122
ES 2096440	T3	19970301	ES 1994-900862	19931122
NO 9502017	A	19950522	NO 1995-2017	19950522
FI 9502482	A	19950524	FI 1995-2482	19950522
US 5606083	A	19970225	US 1995-424512	19950523

PRIORITY APPLN. INFO.: FR 1992-14023 A 19921123
WO 1993-FR1145 W 19931122

OTHER SOURCE(S): MARPAT 121:301105
GI

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



I

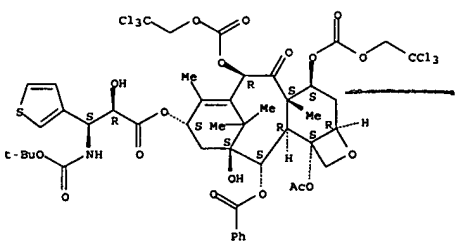
AB Title compds. [I; R = H or Ac; R1 = Bz, CO2R2; R2 = (cyclo)alk(en)yl, Ph, heterocyclyl, etc.; R3 = 5-membered heteroaryl] were prepared as antiproliferatives (no data). Thus, (2RS,4S,5R)-3-tert-butoxycarbonyl-2-(4-methoxyphenyl)-4-(3-thienyl)oxazolidine-5-carboxylic acid (6-step preparation given) was esterified by 4-acetoxy-2α-benzoyloxy-5β,20-epoxy-1,13α-dihydroxy-9-oxo-7β,10β-bis(2,2,2-trichloroethoxycarbonyloxy)-11-taxene to give, in 3 addnl. steps, 4-acetoxy-2α-benzoyloxy-5β,20-epoxy-1,7β,10β-trihydroxy-9-oxo-11-taxen-13α-yl (2R,3S)-3-tert-butoxycarbonylamino-3-(3-thienyl)-2-hydroxypropionate.

IT **159180-02-6P 159180-03-7P 159180-11-7P 159180-12-8P 159180-20-8P 159180-21-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of antiproliferative)

RN 159180-02-6 CAPLUS
CN 3-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(αR*,βS*),11α,12α,12aα,12bα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

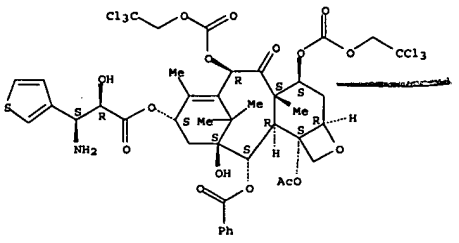
L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



di carbonate

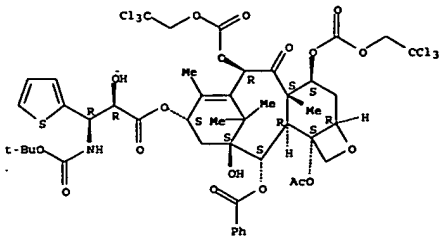
RN 159180-03-7 CAPLUS
CN 3-Thiophenepropanoic acid, β-amino-α-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(.alpha.R*,βS*),11α,12α,12aα,12bα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



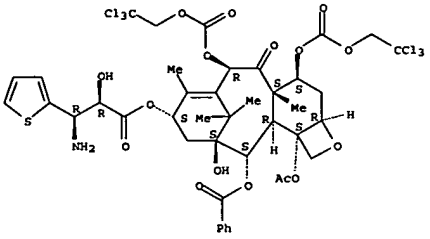
RN 159180-11-7 CAPLUS
CN 2-Thiophenepropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(αR*,βR*),11α,12α,12aα,12bα]]- (9CI) (CA INDEX NAME)

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.



RN 159180-12-8 CAPLUS
CN 2-Thiophenepropanoic acid, β-amino-α-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(.alpha.R*,βR*),11α,12α,12aα,12bα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

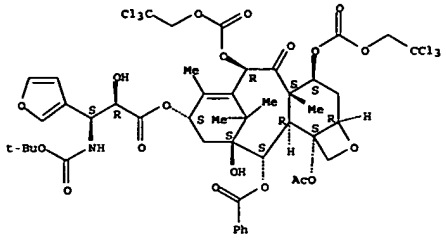


RN 159180-20-8 CAPLUS
CN 3-Furanpropanoic acid, β-[[(1,1-dimethylethoxy)carbonyl]amino]-α-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(αR*,βS*),11α,12α,12aα,12bα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159180-21-9 CAPLUS
CN 3-Furanpropanoic acid, β-amino-α-hydroxy-, 12b-(acetyloxy)-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-4,6-bis[[(2,2,2-trichloroethoxy)carbonyl]oxy]-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, [2aR-[2aα,4β,4aβ,6β,9α(αR*,βS*),11.alpha.,12α,12aα,12bα]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.